

What is claimed is:

1. An external counter-pulsation device comprising:
  - a solenoid valve;
  - a cylinder comprising a piston positioned therein;
  - a gas-supplying pipe being connected between the solenoid valve and the cylinder, for supplying gas to the cylinder;
  - a pushing board being connected with the piston of the cylinder by a pushing pole;
  - a holding board, the cylinder being secured on the holding board; and
  - a surrounding strip secured to the holding board.
2. The external counter-pulsation device in accordance with claim 1, further comprising a holding racket secured on the holding board, the cylinder being positioned inside the holding racket.
3. The external counter-pulsation device in accordance with claim 1, further comprising a soft medium layer on the pushing board.
4. The external counter-pulsation device in accordance with claim 1, wherein the soft medium layer is selected from water sac, oil sac, silica gel, plasticene, soft plastic material, artificial fiber, viscose fiber, medical cotton or sand bag.
5. The external counter-pulsation device in accordance with claim 1, wherein the holding board has peripheral holding nips that engage with two ends of the surrounding strip.
6. The external counter-pulsation device in accordance with claims

1 or 4, wherein the holding board has a central hole and the pushing pole passes through the central hole to connect with the pushing board.

7. The external counter-pulsation device in accordance with claim 1, wherein the pushing board has guiding poles thereon which pass through corresponding pores of the holding board.

8. An external counter-pulsation device comprising:  
a solenoid valve;  
a cylinder comprising a piston positioned therein;  
a pushing pole being connected with the piston of the cylinder;  
a gas-supplying pipe being connected between the solenoid valve and the cylinder, for supplying gas to the cylinder;  
a pushing board for pressing the body of a patient;  
a surrounding strip, for confining the body; and  
a pulling element being connected between the pushing pole and the surrounding strip.

9. The external counter-pulsation device in accordance with claim 8, further comprising a wheel positioned between the pulling element and the pushing pole, for changing the pulling direction of the cylinder.

10. The external counter-pulsation device in accordance with claims 1 or 8, wherein the pressure exerted by the pushing board must meet the requirement of external counter-pulsation, that is  $0.25\sim0.4$  kg/cm<sup>2</sup>.

11. The external counter-pulsation device in accordance with claims

1 or 8, wherein the pushing board is made of hard and elastic material.

12. The external counter-pulsation device in accordance with claim 11, wherein the pushing board is made of metal, plastic, bamboo material or wood material.